



MODEL: IBM-3460
2.4GHZ
CORDLESS SPEAKERPHONE
WITH CALL WAITING CALLER ID

INSTALLATION AND OPERATING GUIDE

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IMPORTANT SAFETY INSTRUCTIONS



This symbol is to alert you to important operating or servicing instructions that may appear in the user's manual. Always follow basic safety precautions when using this product to reduce the risk of injury, fire, or electrical shock.

When using this product, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Use only with class 2 power source DC 9V 300mA.
4. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use this product near water; for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
6. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
7. Slots and openings in the cabinet back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in an enclosed environment unless proper ventilation is provided.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by animals or persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in risk of fire or electrical shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electrical shock, do not disassemble this product. Instead take it to a qualified service person when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electrical shock when the appliance is subsequently used.
12. Unplug all cords and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls covered in the operating instructions. Improper adjustment of other controls may result in damage and require work by a qualified technician to restore the product to normal operation.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use a telephone to report a gas leak in the vicinity of the leak.

IF YOUR PRODUCT UTILIZES BATTERIES, THE FOLLOWING ADDITIONAL PRECAUTIONS SHOULD BE OBSERVED:

1. Use only the type and size of batteries specified in the users manual.
2. Do not dispose of the batteries in a fire. The cells may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. The battery or conductor may overheat and cause burns.
5. Do not attempt to recharge the batteries provided with or identified for use with this product. The batteries may leak corrosive electrolyte or explode.
6. Do not attempt to rejuvenate the batteries provided with or identified for use with this product by heating them. Sudden release of the battery electrolyte may occur causing burns or irritation to eyes or skin.
7. When replacing batteries, all batteries should be replaced at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged batteries.
8. When inserting the batteries into this product, the proper polarity or direction must be observed. Reverse insertion of batteries can cause charging, which may result in leakage or explosion.
9. Remove the batteries from this product if the product will not be used for a long period of time (several months or more) since during this time the batteries could leak, damaging the product.
10. Discard "dead" batteries as soon as possible since they are more likely to leak in a product.
11. Do not store this product, or the batteries provided with or identified for use with this product, in high temperature areas.
12. If your product uses a rechargeable battery, charge the battery(ies) only in accordance with the instructions and limitation specified in the User Manual.

SAVE THESE INSTRUCTIONS

FCC REGULATIONS

Modifying or tampering with the telephone's internal components can cause a malfunction and might invalidate the telephone's warranty and void your FCC authorization to operate it. If the trouble is harming the telephone lines, the telephone company might ask you to disconnect the telephone until you have resolved the problem.

As it complies with Part 68 of the FCC rules, your unit has been registered with the FCC. The FCC requires us to provide you with the following information:

1. Connection and use with the nationwide telephone network:
The FCC requires that you connect to a nationwide telephone network through a modular telephone outlet which is Part 68 compliant.
This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. Check with your local telephone company.
2. Notification to the telephone company:
FCC rules require that upon request you provide the following information to the phone company:
 - A. The line (telephone number) to which you will connect the telephone equipment, and
 - B. The FCC Registration Number and Ringer Equivalence Number (REN). These numbers are found on the back or bottom of your telephone equipment.
The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum all RENs should be 5 or less. To determine the number of devices permitted in your area, contact your local telephone company.
3. Repair instructions:
If it is determined that your telephone equipment is malfunctioning, the FCC requires that it not be used and be unplugged from the modular outlet until the problem has been corrected. Repairs to this telephone equipment can be made only by the manufacturer or its authorized agents, or by others who may be authorized by the FCC. Unauthorized repairs void registration and warranty.
4. Rights of the telephone company:
If your product is causing harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible. You will be given the opportunity to correct the problem, and you will be informed of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your telephone equipment. If such changes are planned, you will be notified in advance.
5. This product is compatible with inductively coupled hearing aids.
Note: This applies only if this product is equipped with a corded or cordless handset.

FCC REGULATIONS

6. Programming/testing emergency numbers:
When programming emergency numbers and/or making test calls to emergency numbers:
 - A. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
 - B. Perform such activities in the off-peak hours, such as early morning or late evening.

INTERFERENCE INFORMATION: PART 15 OF FCC RULES

Some telephone equipment generates and uses radio frequency energy that, if not properly installed, may cause interference to radio and television reception.

This unit has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in subpart J of Part 15 of the FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, when it's in use, the user is encouraged to try to correct the interference by one or more of the following measures:

- A. Where it can be done safely, reorient the radio or TV receiving antenna.
- B. To the extent possible, relocate the television, radio, or other receiver with respect to the telephone equipment.
- C. If your telephone product runs on AC power, plug your product into an AC outlet that's not on the same circuit as the one used by the radio or television.

BATTERY CAUTIONARY INSTRUCTIONS

BATTERIES: CAUTION

To reduce the risk of fire or injury to persons, read and follow these instructions:

- For the cordless handset, use only 3.6V 600mAh Nickel Cadmium (Ni-Cd), cordless telephone replacement battery pack (included).
- Do not dispose of the batteries in a fire. The cells may explode. Check with local codes for possible special disposal instructions.
- Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
- Do not attempt to rejuvenate the batteries identified for use with this product by heating them. Sudden release of the battery electrolyte may occur causing burns or irritation to the eyes or skin.
- When inserting batteries into this product, the proper polarity or direction must be observed. Reverse insertion of batteries can cause charging, and that may result in leakage or explosion.
- Remove the batteries from this product if the product will not be used for a long period of time (several months or more) since during this time the battery could leak in the product.
- Do not store this product, or the batteries provided with or identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting.

Batteries should be stabilized at room temperature prior to use after cold storage.

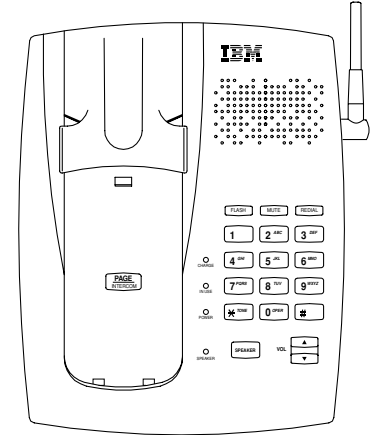


The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates TT Systems LLC is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC® program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-8-BATTERY for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. TT Systems LLC's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.

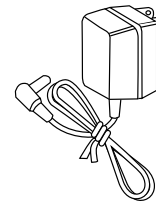
IBM-3460 PARTS CHECKLIST



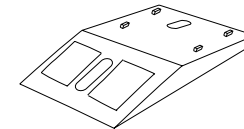
1. Handset



2. Base



3. AC power adapter



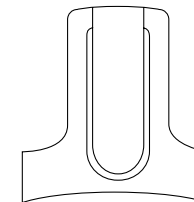
4. Reversible pedestal



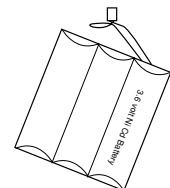
5. 7-foot line cord for desk use



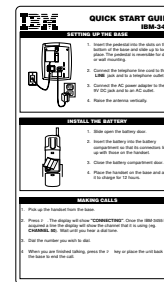
6. Short line cord for wall installation



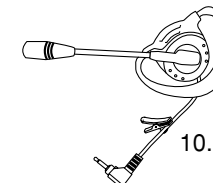
8. Belt-Clip



9. Ni-Cd battery pack

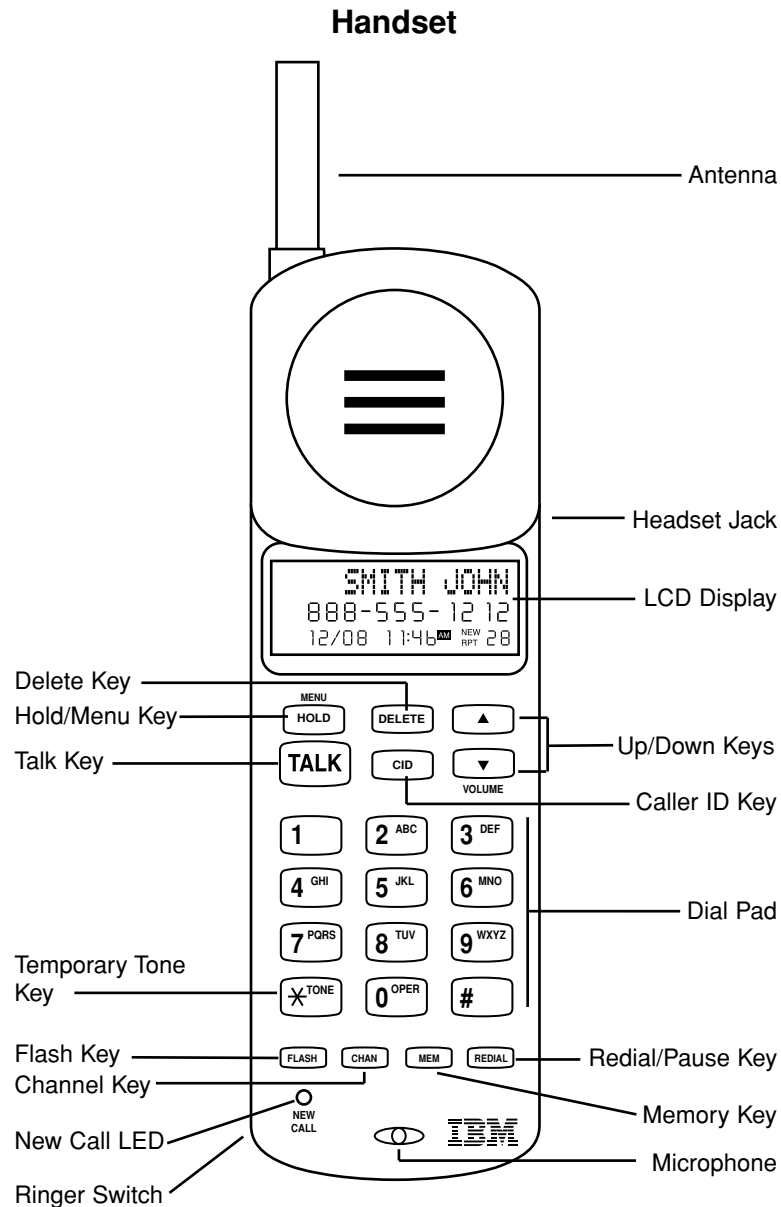


7. Quick start card




10. Headset

LOCATION OF CONTROLS AND FEATURES




LOCATION OF CONTROLS AND FEATURES

Talk

The  key is used to access the telephone line or end a call.


Delete Key

The  key is used to erase digits on the display, single or multiple entries from the speed dial and Caller ID directories.



Caller ID Key

The  key is used to review Caller ID information stored in memory.

Hold Key

The  key is used to place a call on hold. This key is also used to access the programmable functions of your phone.


Up/Down Keys

The   keys let you scroll through menu options and adjust the ringer and handset volume.


Dial Pad

Numeric keys are used in the conventional manner for dialing.


Flash Key

The  key is used to access telephone company services, like call waiting.


Redial Key

 will automatically redial the last number dialed. It is also used to program a measured pause into a dialing sequence stored into a memory location.

Memory Key

Use  to program and retrieve the numbers in the speed dial directory.

Channel Change Key

The  key, when pressed, will scan up to 50 channels and select the clearest one to provide the best possible reception.

Temporary Tone Key

If the base is set to pulse dialing, pressing  causes subsequent digits to be dialed out using tone until the line is put back on hook.

Ringer Switch

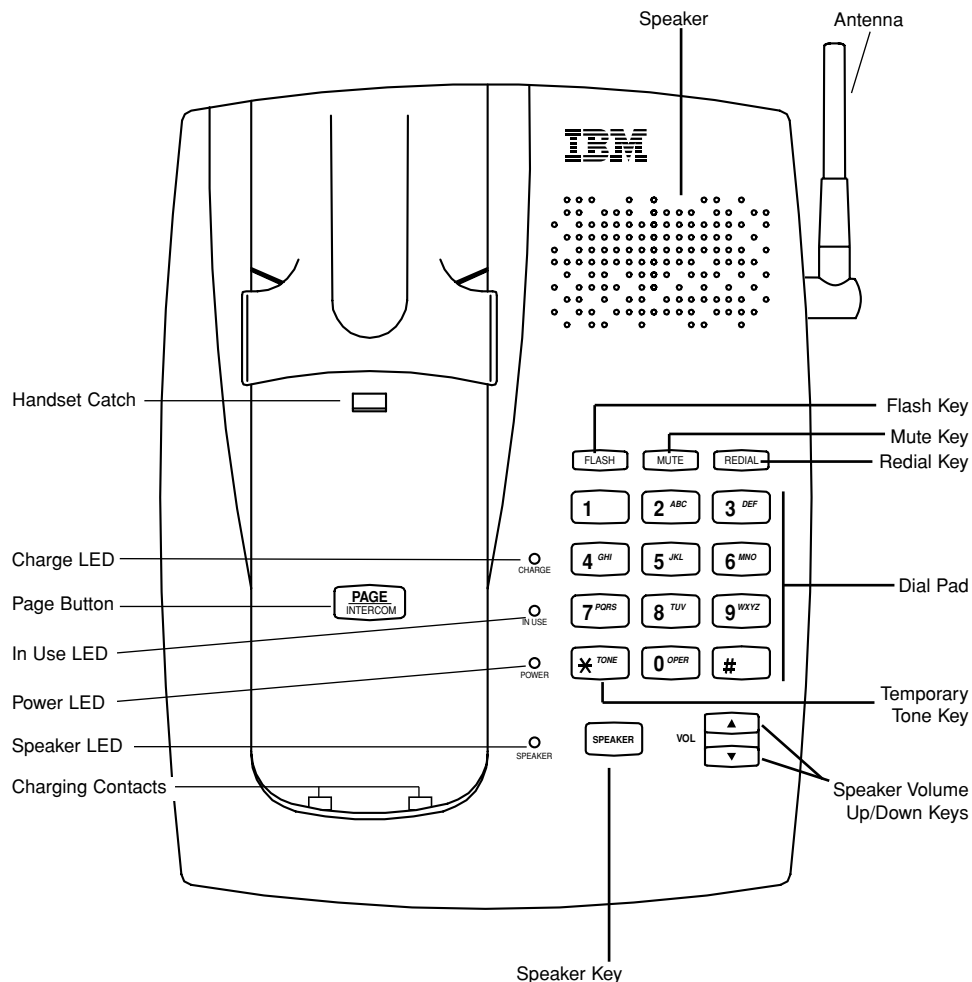
The **RINGER** switch is used to turn the handset ringer **ON** and **OFF**.

Headset Jack

Allows using a headset for hands-free convenience.


LOCATION OF CONTROLS AND FEATURES

Base





LOCATION OF CONTROLS AND FEATURES

Speaker Key

The  key is used to access the phone line using the speakerphone.


Volume Up/Down Keys

The   keys adjust the speaker volume.

Base Dial Pad

Numeric keys are used in the conventional manner for dialing with the speakerphone.


Flash Key

The  key is used to access telephone company services, like call waiting.


Redial Key

Pressing  will automatically redial the last number dialed.

Mute Key

While on a call, if you want to have a private conversation with someone in the room, you can mute the speakerphone's microphone by pressing .

Temporary Tone Key

If the base is set to pulse dialing, pressing  causes subsequent digits to be dialed out using tone until the line is put back on hook.

Base LEDs:


Charge - Lights red when the handset battery is charging.

In Use - Lights green when the phone is being used.

Power - Lights red when the base is receiving power from the AC adapter.

Speaker - Lights green when the speakerphone is being used.

Page /INTERCOM

The /INTERCOM key sends a signal to the handset which causes it to beep. This beeping helps find a lost handset or page the person using the handset. An intercom connection can also be initiated between the base and handset.

Handset Catch

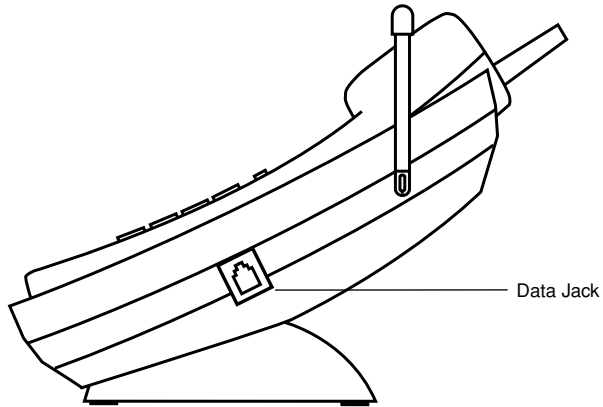
Used to hold handset on the base when wall mounted.

Charging Contacts

Used to recharge battery and reset the security code in the handset.

LOCATION OF CONTROLS AND FEATURES

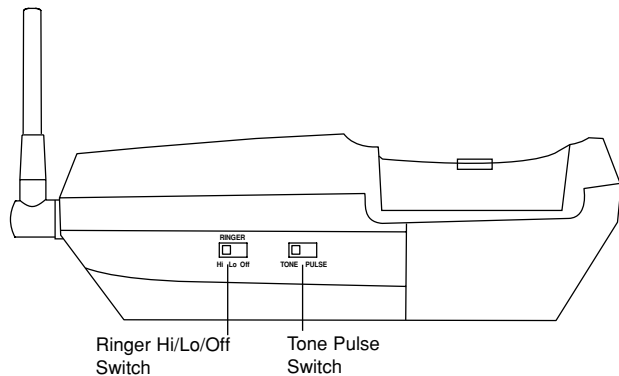
Right Side View



Data Jack

Used for connecting a computer or fax machine.

Base Top View



Ringer Hi/Lo/Off Switch

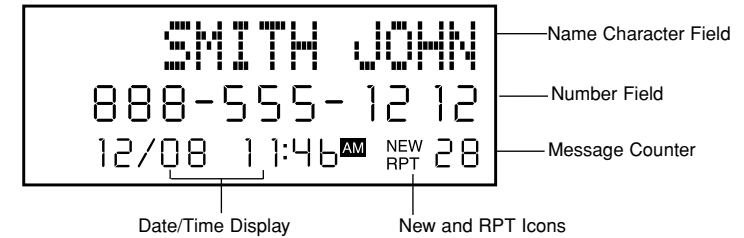
Used to set the volume of the base ringer to High, Low, or Off.

Tone/Pulse Switch

Used to set the dialing method for tone or pulse dialing.

LOCATION OF CONTROLS AND FEATURES

LCD Display



Name Character Field

Displays caller's name and operational menus.

Number Field

The number field will display numbers when dialing, viewing Caller ID, and when viewing the phone book.

Date/Time Display

Shows the date and time of Caller ID calls or current date & time when idle.

NEW and RPT Icons

The **NEW** call icon will flash slowly when a new Caller ID call has been received. The **RPT** icon shows that the same Caller ID number has called more than one time.

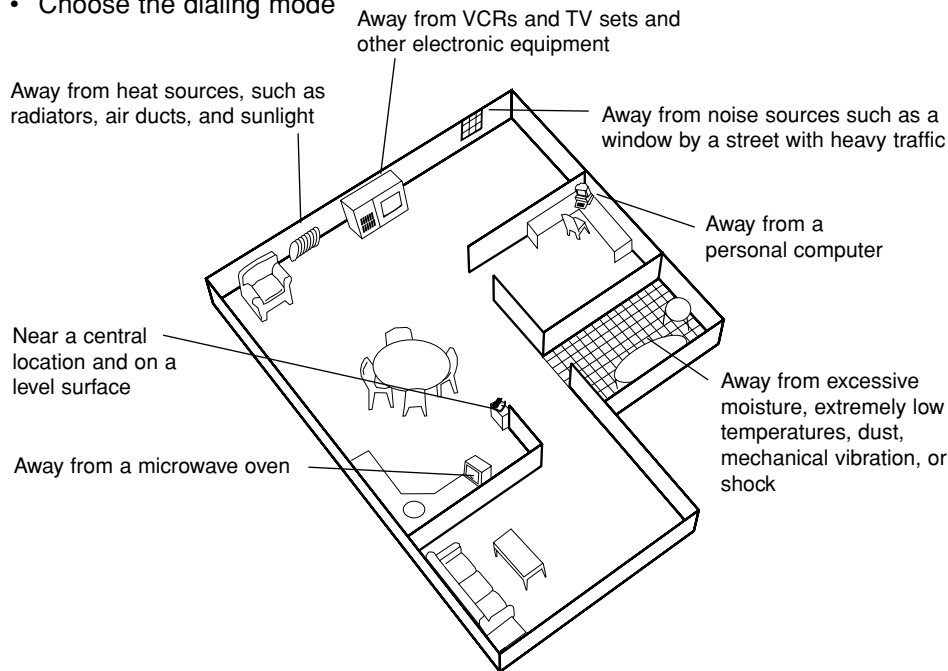
Message Counter

The Message Counter will show the total number of Caller ID messages received.

CHOOSING A LOCATION

Do the following:

- Choose the best location
- Connect the phone
- Choose the dialing mode



Where you place the phone affects the reception quality of the handset:

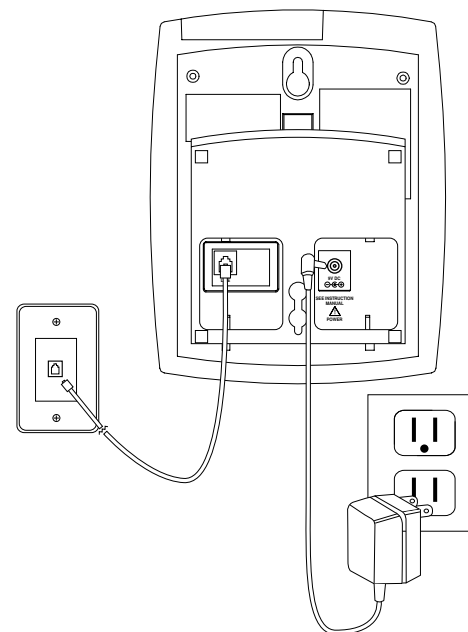
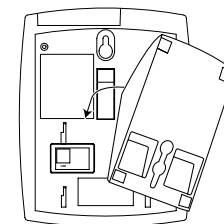
- Away from another cordless telephone;
- Place the base near an AC electrical outlet and near telephone line jack;
- Place the base away from metal walls and metal file cabinets;
- Raise the base unit's antenna making sure it points towards the ceiling.

CAUTION: The cordless telephone operates at a frequency that may cause interference to nearby TVs and VCRs; the base phone should not be placed near, or on top of a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

CONNECTING THE BASE

Connect the phone

1. Insert the pedestal into the slots on the bottom of the base and slide up to lock in place. The pedestal is reversible for desk or wall mounting.
2. Connect the telephone line cord to the "**LINE**" jack and to a telephone outlet.
3. Connect the AC power adapter to the 9V DC jack and to an AC outlet. The **POWER** LED on the base lights up.
4. Raise the antenna vertically.



Note: Use only the supplied AC power adapter. Do not use any other AC power adapter. Connect the AC power adapter to a continuous power supply. Place the phone close to the AC outlet so that you can plug in the AC power adapter easily.

Tip: If your telephone outlet is not modular, contact your telephone company for assistance.

TELEPHONE SETUP

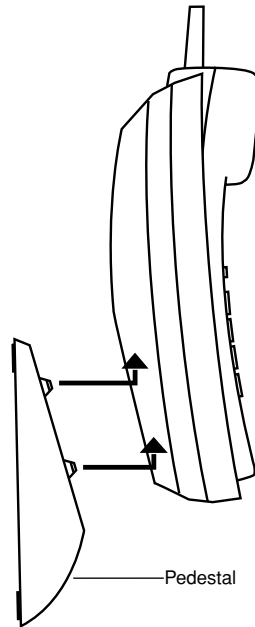
Wall Mounting

The IBM-3460 telephone may be installed on the studs of a standard wall phone plate or onto two screws (not included) fastened into the wall. When installing screws into plasterboard walls, use wall anchors (not included) to ensure that the screws remain secure. Insert the screws into the wall leaving 3/16" of each screw extending out from the wall.

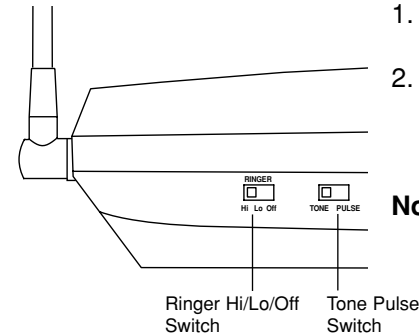
Wall Mounting Instructions:

1. Remove the handset from the base.
2. Turn the base over so the underside of the base faces you.
3. Place the pedestal to the wall mount position and slide into place.
4. If mounting over a telephone wall jack, plug the supplied short telephone cord into the jack labeled **LINE** on the telephone. Thread the line cord through the slot on the backside of the phone.
5. If wall mounting with screws, plug the supplied 7-foot telephone cord into the **LINE** jack on the telephone.
6. Connect the telephone line cord to the wall jack.
7. Insert the AC adapter into the **9V DC** jack on the bottom of the base.
8. Slip the telephone base onto the wall, lining up the wall mounting holes over the wall plate posts or screws. Slide the telephone base down so it is firmly in place.
9. Return the handset to the telephone base.
10. Plug the other end of the AC adapter into the AC outlet.

Note: In wall mount position the handset must be charged in the face up position.



Tone/Pulse Switch



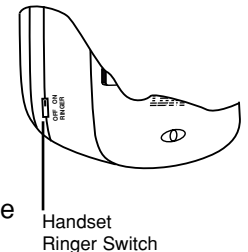
1. Choose the correct dialing mode.
2. Select the dialing mode Tone or Pulse by setting the switch at the back of the base unit.

Note: Changes to the switch position during a call do not take effect until the call has ended.

Tip: If you are unsure of the proper dialing mode, make a trial call with the dial mode setting to **TONE**. If the call connects, leave the switch as is (**TONE** mode); otherwise, set to **PULSE**.

Ringer Setting

1. To set the handset ringer level HI/LO on the handset press when the handset is idle.
2. To turn the handset ringer **ON** or **OFF**, set the **RINGER** switch located on the handset to the desired position.
3. To set the base ringer level **HI/LO/OFF**, set the **RINGER** switch located on the back of the base to the desired position.



Note: Other ringer options can be programmed on the handset when programming setup functions.

BATTERY INSTALLATION

Battery Installation

To install the 3.6V 600mAh cordless handset battery pack:

1. Slide open the battery compartment door on the back of the handset.
2. Plug the battery connector into the 2-pin connector in the battery compartment, and then insert the battery.
3. Close the battery compartment door.
4. Place the handset on the base unit cradle.
5. Once you have installed the battery pack and placed the handset on the base you will hear a tone indicating the handset has connected with the base and will successfully charge.
6. **IMPORTANT:** Charge the battery pack for at least 12 hours before using the handset the first time.
7. The **CHARGE** LED on the base will light when the handset is properly making contact with the charge terminals.

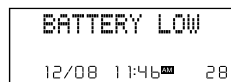
Battery Duration

A fully charged battery lasts for approximately:

- 6 hours when you use the handset continuously (talk time).
- 5 days when the handset is not in use (standby).

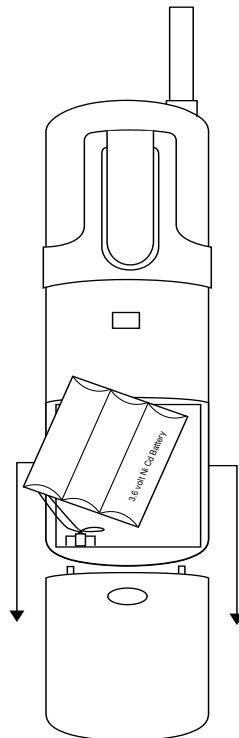
When the Battery Needs Charging

- The phone will beep.
- The display will show **"BATTERY LOW."**

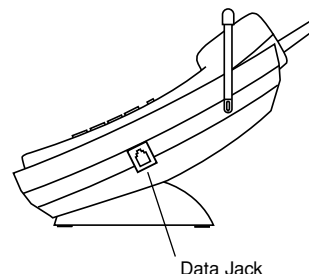


When to Purchase a New Battery Pack

If the battery lasts only a few minutes even after a full charge, the usable life of the battery has expired and needs to be replaced. Contact TT Systems LLC customer support center by calling **1-800-955-1009** or on the Internet at **www.ttssystems.com**.



HEADSET AND DATA JACK



The Data Jack

The jack located on the side of the telephone labeled **"DATA"** is a convenience jack. It is useful for connecting a fax machine or modem when there is no telephone jack available for that device.

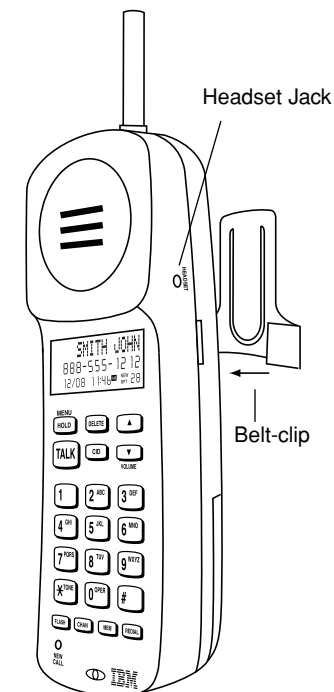
The Headset Jack

The headset jack is located on the right side of the handset and is a standard 2.5mm plug. Simply plug the headset into the jack and the headset will be active.

Note: When the headset is plugged into the telephone, the microphone and earpiece on the handset are not active.

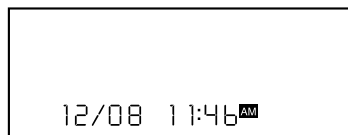
Belt-Clip

Install the belt-clip as shown.



BASIC DISPLAYS

Handset Idle



Line on Hold



Channel



Call Timer



Channel Changing



New CID Received



Line Ringing



Speakerphone in Use



Connecting



BASIC OPERATION

Making Calls

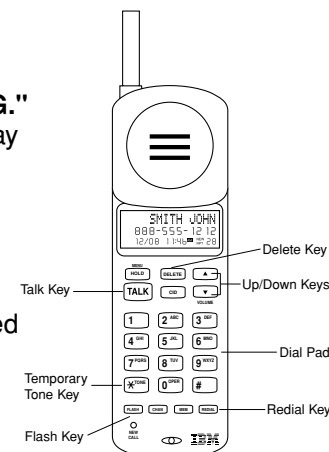
Using the handset:

1. Pick up the handset from the base.
2. Press **TALK**. The display will show **"CONNECTING."** Once the IBM-3460 has acquired a line the display will show the channel that it is using (eg. **CHANNEL 50**). Wait until you hear a dial tone.
3. Dial the number you wish to dial.

Note: You can pre-dial the number before you press the **TALK** key. The number displayed will be dialed once **TALK** is pressed.

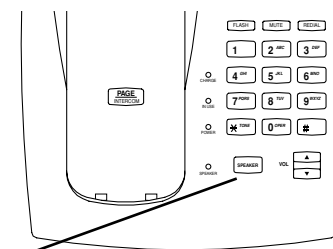
4. After 15 seconds of the line being active the display will show the call timer.
5. When you are finished talking, press the **TALK** key or place the handset back into the base to end the call. The call timer will display for a short time after the call has finished.

Note: The **IN USE** light on the base will illuminate when the handset is active.



Using the speakerphone:

1. Press **SPEAKER**. The Speaker LED will light. Wait until you hear a dial tone.
2. Dial the number you wish to dial.
3. When you are finished talking, press the **SPEAKER** key to hang up.

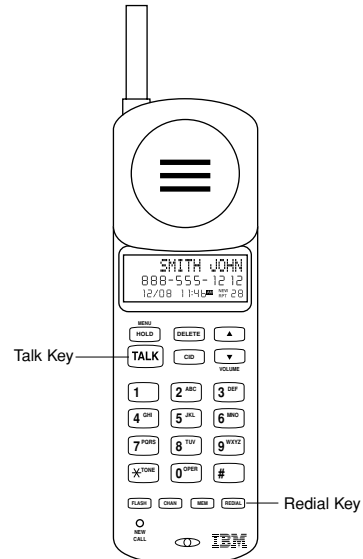


Additional Options

To:	Do This:
Switch to temporary tone dialing	Press the FLASH key after the phone is in use. The phone will remain in tone dialing mode for the duration of the call.
Receive a call waiting call	Press FLASH to go to the new caller. Press FLASH again to go back to the original caller.
Adjust the call volume	Press UP or DOWN during a call until the desired volume level is reached.
On the handset only:	
Place a call on hold	Press the HOLD key. Press TALK or SPEAKER to pick up the line on hold.
Delete a pre-dialed number or digit	Press DELETE , wait 10 seconds or place the handset back on the base.

USING YOUR TELEPHONE

Receiving Calls



Using the handset:

When you hear the phone ring:

1. If the handset is in the base, lift the handset from the base. The handset will turn on. There is no need to push the **TALK** key if the unit is on the base when the call comes in.
2. If the handset is off the base the display will show "RINGING." Push **TALK**.
3. When you are finished, push **TALK** or place the handset back on the base.

Note: If you have Caller ID, the display will show the Caller ID information while the phone is ringing.

Using the speakerphone:

When you hear the phone ring:

1. Push the **SPEAKER** key. The Speaker LED will light.
2. When you are finished, push **SPEAKER**.

Redialing

Using the handset:

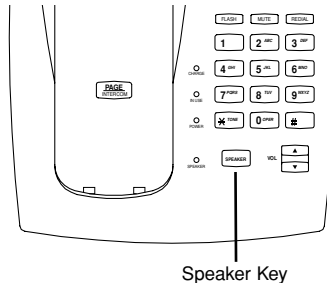
1. Press **TALK**. The display will show "CONNECTING." Once the IBM-3460 has acquired a line the display will show the channel that it is using (eg. **CHANNEL 50**). Wait until you hear a dial tone.

2. Press **REDIAL**/PAUSE to redial the number last dialed.

Note: On the handset you can press **REDIAL**/PAUSE first to display the number and then press **TALK** to dial the number displayed.

Using the speakerphone:

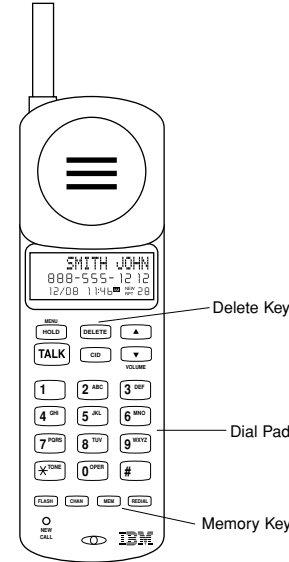
1. Press **REDIAL**. The Speaker LED will light. Wait until you hear a dial tone.
2. Press **REDIAL** to redial the number last dialed.



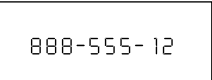
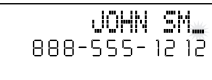
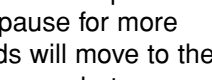
SPEED DIALING

Speed Dialing

The IBM-3460 will store up to 20 speed dial numbers (up to 10 can be programmed for 1-touch dialing). Speed Dialing is only available on the handset.




Storing Phone Numbers

1. With the handset in the idle state, press **MEM**.

2. Dial the number you wish to store (up to 15 digits) and press **MEM**.

3. Enter the name you wish to store using the dial pad to enter the letters. See the letter table for how to program the letters using the number pad. When entering letters if you pause for more than a second, the letter fields will move to the next letter to enter. To add a space between words push **1**.


Example: For **JOHN SMITH** dial this sequence:

5	666	44	66	1	7777	6	444	8	44
J	O	H	N	space	S	M	I	T	H

4. Press **MEM** when finished.
5. The next available memory location will automatically be displayed. To accept this press **MEM** or enter a number for a different location. If there is a memory stored in the location selected the IBM-3460 will ask if you would like to erase the original memory stored. Press the **MEM** to accept or any other key to reject.

6. When you are finished, press **MEM**.

SPEED DIALING

Letter Table

Number	First press	Second press	Third press	Fourth press	Fifth Press
1	Space	1	Space	1	Space
2	A	B	C	2	A
3	D	E	F	3	D
4	G	H	I	4	G
5	J	K	L	5	J
6	M	N	O	6	M
7	P	Q	R	7	P
8	T	U	V	8	T
9	W	X	Y	9	W
0	0	0	0	0	0

Note: If there are no memory locations left in the speed dial directory the IBM-3460 will display **"MEMORY FULL."** You can continue with memory programming and select the location that you want to replace. If you make a mistake, push **DELETE**. Each time you press **DELETE**, the last letter or number will be erased.

Tip: The first 10-memory locations that are stored can be used with the one-touch dialing feature of your IBM-3460.

Name Matching

If you have stored names and numbers in the speed dial directory and you receive a Caller ID call with a number that matches a number in the speed dial directory the name that is stored will be displayed with the Caller ID number.

SPEED DIALING

Making Calls With Speed Dialing

One-Touch Dialing

1. To make a call using one-touch dialing, press and hold the number location that the number is stored under. The display will show the number and begin scanning for a clear channel. Then the IBM-3460 will dial the number displayed.

2. When you are finished talking, press the **TALK** key or place the handset back into the base to end the call.

Note: Be sure to check that the line is not in use by another extension.

Dialing from Directory

1. To make a call from the speed dial directory press **MEM**.

2. Locate the number you wish to dial using **▲** **▼**.

3. Push **TALK**. The display will show the number, and begin scanning for a clear channel. The number displayed is then dialed.

4. When you are finished talking, press the **TALK** key or place the handset back into the base to end the call.

Deleting a Stored Number

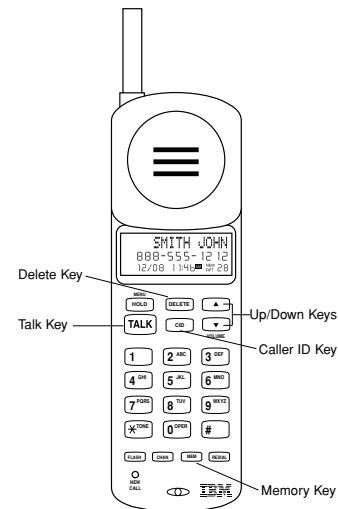
1. Press **MEM**.

2. Locate the number you wish to delete using **▲** **▼**.

3. Press **DELETE**. The display will show **"REMOVE ITEM?"**

4. Press **DELETE** to delete the speed dial memory.

5. When you are finished press **MEM**.



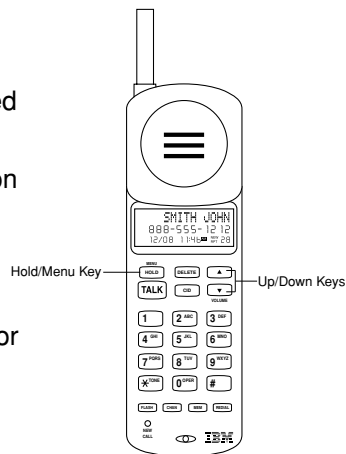
HANDSET SETTINGS

Changing the Handset Settings

You can change the setting on the handset in the options menu.

In the menu options the settings that can be changed are:

- **Ringer Tone** Change the way the ringer sounds on the handset or turn ringer off.
- **Time and Date Setting** Change the time and date.
- **Home Area Code** Setting your home area code for Caller ID dial back.
- **Local Area Codes** You can set your local area codes if you have 10-digit dialing for Caller ID call-back. You can have as many as eight local area codes.
- **Call History** Will allow you to select the Caller ID storing options: Save **"ALL CALLS,"** save **"UNANS CALLS"** (unanswered calls), or save **"NO CALLS."**
- **Repeat Calls** Will allow you to select the way repeat Caller ID calls are stored: **"SEPARATE"** will store the repeat calls as separate entries, **"COMBINED"** will store the repeat calls as one entry and the **"RPT"** icon will display for these calls.
- **Call List Order** Will allow you to program how you view the calls: **"BY TIME"** shows the first call received to the last call received, or **"NEW CALLS"** shows the new Caller ID calls first then the old calls.



Note: At any time during options programming you can quit and the settings that you have selected will be saved. Quit the options menu by pressing and holding **HOLD/MENU** or let the options programming time out by not pressing any keys for 20 seconds.

Tip: If within your local area you are required to dial 10-digits (XXX-XXX-XXXX) to dial a local number, use the **"LOCAL AREA CODE"** programming. In this case do not use the **"HOME AREA CODE"** when setting up for Caller ID call back.

HANDSET SETTINGS

Press and hold the **HOLD/MENU** key until the display shows **"RING TONE: A."** You are now in the options menu.

Handset Settings

Display Shows	To Change Setting	Settings	To Select
"RING TONE: A"	Push the ▲ ▼ to change the setting. Note: The ringer will ring to allow you to choose the ring tone that you desire.	A, B, C, D, and E	Push HOLD
"SET TIME?"	Use the number pad to change the date and time. 1. Enter the date as month/day (mm/dd) as you enter each digit, the next digit will flash. Enter the month first then enter the day. Example: For February 25 enter 0 2 2 5 2. Next enter the time. Use military time to enter the time correctly. Example: For 1:31PM enter 1 3 3 1 Note: If you have Caller ID the time will update automatically and you do not need to change this setting.	Date and Time	Push HOLD
"HOME AREA CODE" -- --	Use the number pad to add or change the home area code.	Home Area Code	Push HOLD
"LOCAL AREA CODE" -- -- "1ST LOCL CODE" -- -- "2ND LOCL CODE" -- --	Use ▲ ▼ up or down to go to the first local area code. 1. Use the number pad to add or change the home area code. 2. Go to the next local area code by pressing ▲ ▼ up or down. 3. Enter the local area code the same as previously and continue up to 8 local area codes. Note: If you do not have 10-digit dialing in your area do not use this feature.	Local Area Code	Push HOLD
"CALL HISTORY"	Push the ▲ ▼ to change the setting	"ALL CALLS," "NO CALLS," or "UNANS CALLS"	Push HOLD
REPEAT CALLS"	Push the ▲ ▼ to change the setting	"SEPARATE" or "COMBINED"	Push HOLD
CALL LIST ORDER"	Push the ▲ ▼ to change the setting	"BY TIME" or "NEW CALLS"	Push HOLD

CALLER ID

Caller ID allows the caller's name and phone number to be shown on the handset display before you answer the call. In order to use this feature you must first subscribe to Caller ID service with your telephone company.

When You Receive a Call

1. When the telephone rings, the caller's name and phone number appears on the display.
2. The new Caller ID record includes the name and number of the caller and the time and date the record is received. The New Call light will flash to indicate that you have a new Caller ID call stored in memory.

Note: When the Caller ID information is received, it is stored in memory so that this information can be recalled for later use. Up to 30 Caller ID calls can be stored.

Viewing the Caller ID List

This phone automatically stores the last 30 calls received.

Tip: The IBM-3460 can keep track of all Caller ID calls received, even if they were not answered, depending on how the handset was set up (see handset settings on page 25).

1. With the handset idle press **CID**.
2. The most recent call will be displayed. The information on the call will be displayed with the name, number, date, and time that the call was received.
3. To scroll to the next call, press **▲** **▼**. The **▼** will go through the calls from the last call received to the first. The **▲** will allow you to view the calls from the first call received to the last. Between the first and last call the display will show **"END OF LIST:"**
4. Press **CID** to finish.

SMITH JOHN
888-555-1212
12/08 11:46 AM NEW RPT 28

SMITH JOHN
888-555-1212
12/08 11:46 AM NEW RPT 28

CALLER ID

Caller ID Displays

SMITH JOHN
888-555-1212
12/08 11:46 AM NEW RPT 28

Display shows name and number, time and date of the call.

888-555-1212
12/08 11:46 AM NEW 28

Display shows number-only service.

UNAVAILABLE
12/08 11:46 AM NEW 28

"UNAVAILABLE" will be displayed when Caller ID information is not available. This call was made from a telephone company that does not offer Caller ID services (including international calls).

PRIVATE
12/08 11:46 AM NEW 28

"PRIVATE" will be shown when a call is received from a blocked number. For privacy reasons, some states allow callers the option to prevent their telephone data from being displayed on the other party's Caller ID display.

ERROR

Display shows when the Caller ID information was received incorrectly or only part of the data was received.

Note: When an error is received, none of the data from this call is saved in memory.

MESSAGE WAITING

Display shows when a voice mail message has been received and is stored by message waiting service provided by the phone company.

END OF LIST

This is shown between the first and last call when viewing the Caller ID list.

NO CALLS

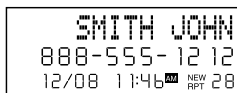
This is displayed when **CID** is pressed and there is no Caller ID data stored.

CALLER ID

Caller ID with Call Waiting Service

In order to use the "Caller ID with Call Waiting" service you must subscribe to a telephone company that offers Caller ID service combined with "call waiting" service.

When a new call comes in while you are talking, you will hear a notification beep from the handset and the volume is momentarily muted. The new caller's name and phone number, if available, appears on the display.



SMITH JOHN
888-555-1212
12/08 11:46 AM NEW RPT 28

1. When you receive a "call waiting" call and you want to connect the call, press **FLASH**. The active call will be placed on hold and the new call will be active.
2. Press **FLASH** to alternate between calls.
3. Press **TALK** to end the call or place the handset back on the base.

Storing Caller ID Records to the Speed Dial Directory

1. Press **CID**.
2. Use the **▲** **▼** to scroll to the call record you wish to store.
3. Press **MEM**.
4. The display will show **"SAVE NUMBER?"**
5. To save the record press **MEM**.
6. The display will show **"ENTER LOCATION"** with the next available location blinking.
7. Change the location or press **MEM** to store the number.
8. The display will show **"STORED."**
9. Press **CID** to finish.



SAVE NUMBER?
888-555-1212
12/08 11:46 AM 28

CALLER ID

Deleting Records in the Caller ID List

When viewing the Caller ID information you can delete a single call record or all the call records.

To Delete a Single Record

1. Press **CID**.
2. Use **▲** **▼** to scroll to the call record you wish to delete.
3. Press **DELETE**.
4. The display will show **"REMOVE ITEM?"**
5. To delete the record press **DELETE**.
6. Press **CID** to finish.



REMOVE ITEM?
888-555-1212
12/08 11:46 AM 20

To Delete All Records

1. Press **CID**.
2. Press and hold **DELETE**.
3. The display will show **"REMOVE ALL?"**
4. To delete all the Caller ID records press **DELETE**.
5. The display will show **"NO CALLS."**
6. Press **CID** to finish.



REMOVE ALL?
888-555-1212
12/08 11:46 AM 28

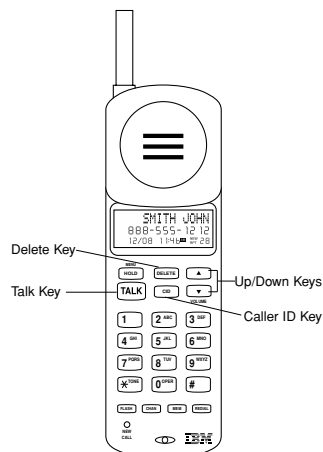


NO CALLS

CALLER ID

Returning Calls from the Caller ID Records

You can return calls by using the Caller ID recall feature.



1. Press **CID**.
2. Use the **▲** **▼** to scroll to the call record you wish to call back.
3. Press **TALK**.
4. The display will show **"DIAL NUMBER?"**
5. Press **TALK** to dial out the displayed number.
6. To end the call, press **TALK**.

DIAL NUMBER?
1-888-555-1212
12/08 11:46 28

If the number displayed is not correct, (needing 7, 10, 11 digits), do the following before you dial:

7. Press **▲** **▼** to toggle among 7, 10, 11 digit numbers to be dialed out.

8. Press **TALK** to dial the number displayed.

9. Press **DELETE** to cancel dialing.

10. When you are finished talking, press the **TALK** key or place the handset back into the base to end the call.

Tip: If you set up your home area code and local area codes in the handset setup mode, you will not have to adjust the number between 7, 10 or 11 digit dialing (see handset settings on page 25 for setup information).

DIAL NUMBER?
1-888-555-1212
12/08 11:46 28

Press **▲**

DIAL NUMBER?
555-1212
12/08 11:46 28

Press **▲**

DIAL NUMBER?
888-555-1212
12/08 11:46 28

When you are ready to dial the number, press **TALK**. The number displayed will dial out.

MESSAGE WAITING

Message Waiting*

If you subscribe to voice mail from the telephone company and if there are voice messages that have been left in your voice mailbox, the display will show **"MESSAGE WAITING."**

MESSAGE WAITING
12/08 11:46 NEW RPT 28

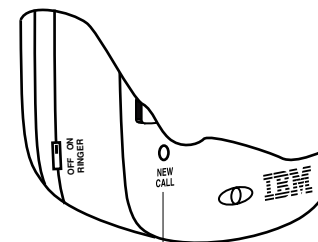
***Note:** This function requires voice mail subscription from the local telephone company. Furthermore, the local phone company must provide a type of voice mail signaling called "FSK." Not all telephone companies have the visual message waiting feature available. Please contact your local telephone company to check if this is available in your area.

Tip: If you wish to delete the "Message Waiting" message, delete all the Caller ID messages (see "Deleting the Calls in the Caller ID List" on page 30).

New Call Light

When you receive a Caller ID message, voice mail message, or when the phone is ringing, the New Call light will flash accordingly.

- When ringing, the New Call light will flash rapidly.
- For Caller ID, the New Call light will flash to indicate that you have a new Caller ID call stored in memory.
- When you have a voice message waiting the New Call light will flash at a slow rate.



New Call Light

OTHER FEATURES

Using the Intercom/Handset Finder (PAGE)

1. Press **PAGE**/INTERCOM on the base. If the handset is within range, the handset will beep for 20 seconds. The display will flash “**INTERCOM.**”

INTERCOM

12/08 11:46

2. Press **TALK** to answer and have an Intercom conversation with the base.
3. Press any other key on the handset to stop the page/find feature.

Remote Hold Release

When a line is placed on hold, any other phone on that line can be used to access the call and hold will be broken from the IBM-3460.

Out-of-Range Warning

If you venture too far from the base, the handset will beep and the display will show “**OUT OF RANGE.**” Reverse your direction to re-establish connection with the base or the call will be dropped. When the base detects that the handset has been out of range for 15 continuous seconds it will release the engaged line.

Channel Changing

If you are experiencing interference during a telephone call, press the **CHAN** key. The IBM-3460 will scan up to 50 channels and select the clearest one to provide the best possible reception.

GLOSSARY

Useful Features and Terms

Calendar/Clock — Visual display of date, day and time.

Caller ID — Enables users to view name and number of callers. Contact your local telephone company to subscribe to Caller ID Service.

Caller ID Log — Stores up to 30 Caller ID entries.

Call Timer — Allows timing of phone conversations.

Data/FAX Port — Allows connection of a PC or FAX machine directly into the phone versus a wall outlet.

Dial from Display — One-button dialing from the Caller ID log.

Display — The Liquid Crystal Display (LCD) shows clock and calendar, number dialed, low battery indicator, Caller ID information and call timer.

Flash — A signal sent by the phone to the local telephone company supporting services such as call waiting.

Hold — Permits user to place a call on hold. Allows access by that user or by any other extension in the system.

Message Waiting Indicator — A visual indicator that there are new messages in your voice mail box. Requires FSK signaling by phone company. Contact your local telephone company to subscribe to Voice Mail Service.

Mute — Prevents the party on the other end of the line from hearing local conversation.

New Calls Indicator — A visual indicator that new calls have been received.

Redial — Performs single button dialing of last number dialed.

Ringer Level Control — Permits adjustment of the ringer volume level.

Speed Dialing — Allows programming of frequently dialed numbers so that they can be dialed with the two touch speed dial button. (20 entries)

Tone/Pulse Option — Enables you to switch from pulse (rotary) to tone dialing.

Volume Level Control — Permits volume adjustment of the handset and headset during a conversation.

FSK type Signaling — A signal used to turn on and off the message waiting indicator, can be sent by the telephone company with a ringing signal or without.

CARE AND MAINTENANCE

Your IBM-3460 telephone has been designed to give years of trouble-free service. It is a sensitive electronic instrument. To assure its longevity, please read the following maintenance instructions.

1. Keep the IBM-3460 away from heat as high temperatures can shorten the life of the electrical components and distort or melt its plastic parts.
2. The IBM-3460 should be kept free of dust and moisture. If it gets wet, wipe it dry immediately. Liquids can contain minerals that can corrode electronic circuits.
3. Handle your IBM-3460 gently and carefully. Dropping it can cause serious damage to circuitry, or the plastic case, which may result in malfunction.
4. Do not use any type of chemical or any abrasive powder to clean the cabinet. Use only mild detergents on a soft, damp cloth to clean the IBM-3460 telephone.
5. The IBM-3460 has built-in surge protection circuits that meet or exceed FCC requirements. However, an incident such as a lightning strike at or near the telephone lines, could cause serious damage.
6. If the IBM-3460 is installed in an area with frequent or severe electrical storms, it is suggested that the telephone be disconnected during these storms or that additional surge suppression equipment be added to the installation.
7. In the case of trouble with the telephone, do not attempt to repair the telephone yourself. It is the responsibility of users requiring service to report the need for service to our Service Department. They will make the necessary arrangements for repair or replacement.
8. If you should have any questions about the operation of your IBM-3460 telephone, please call our Service Department at **1-800-955-1009**, between the hours of **9:00 A.M. and 9:00 P.M.** Eastern time **Monday - Friday**. Or you may contact TT Systems LLC for technical assistance via our Internet Web site at **www.ttsystems.com** or e-mail at **tech@ttsystems.com**.

TROUBLESHOOTING

No dial tone/phone will not dial out.

- Check that you have plugged the AC power adapter into a working AC power outlet.
- Check all telephone cord connections or try another wall jack.

Can't hear the ring signal.

- Check the ringer volume controls; at the lowest level the ring may not be heard.

While on a call, you hear another call on the line or experience radio frequency interference.

- Switch channels to a clear channel.
- Check the wiring for bad connections.

The caller's name and/or phone number does not appear on the display.

- Make sure you have subscribed to Caller ID service (from local telephone company).
- Caller ID service may not work when the phone is connected to a Private Branch Exchange (PBX).
- The call is coming from an area not supplying caller ID data. **"Out of Area"** will appear on the display.
- The caller has requested that their phone number be suppressed from Caller ID service. **"Private"** or **"Unavailable"** will appear on the display.
- You answered the call before Caller ID data was displayed, which usually occurs after the second ring.

New Call/Message Waiting Indicator doesn't work properly.

- Make sure you have subscribed to voice mail compatible with "FSK" type signaling (check with your local phone company). If your voice mail product from the local phone company does not support "FSK" signaling, you may use this feature as a New Call Indicator only.

Can't receive or make phone calls.

- Check to be sure the phone is set to the correct type of service, either Tone or Pulse.

WARRANTY

Statement of limited warranty: TT Systems LLC warrants that for a period of one year from the date of purchase that this product 1) is free from defects in materials and workmanship and 2) conforms to its specifications. If this product does not function as warranted during the warranty period, TT Systems LLC, at its option, will either replace this product with one that is functionally equivalent or will refund your purchase price. These are your exclusive remedies under this warranty. Please call 1-800-955-1009 for warranty service.

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TT Systems LLC warrants that the IBM-3460 sold by TT Systems LLC within the continental limits of the United States, Hawaii and Alaska, are free from defects in materials and workmanship under normal use and service for 1 year. This warranty is applicable only to the original purchaser of the IBM-3460, when accompanied by a sales receipt stating the date of purchase and name of the company from which purchased. This warranty is in lieu of and excludes all other warranties, expressed or implied, including any implied warranty of merchantability or fitness, and of any other obligation on the part of TT Systems LLC.

If the IBM-3460 shall prove to be defective, then TT Systems LLC shall either replace, repair or refund the purchase price of the IBM-3460 at its discretion as follows: at no cost to the original purchaser except shipping charges, within 90 days of the date of purchase.

From 91 days to 365 days, you may return the IBM-3460 to TT Systems LLC at the following address: TT Systems LLC, 4 Executive Plaza, Yonkers, New York 10701. Shipping charges are at the customer's expense. Please include a copy of your sales receipt and a check or money order made out to TT Systems LLC for the amount of \$14.50 to cover shipping and handling.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. There is no informal dispute settlement mechanism available. This warranty will be voided by misuse, improper physical environment, accident, or improper maintenance by you.

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